

Toth et al.**S/N:10/605,789****In the Specification**

Please amend paragraph [0027] as follows:

Casing 64 is typically formed of an aluminum-based material and lined with lead to prevent stray x-ray emissions. A stator ~~70-80~~ is also provided adjacent to vacuum vessel 68 and within the casing 64. A window 82 is provided that allows for x-ray emissions created within the system 50 to exit the system and be projected toward an object, such as, a medical patient for diagnostic imaging. Typically, window 82 is formed in casing 64. Casing 64 is designed such that most generated x-rays 84 are blocked from emission except through window 82. X-ray system 50 includes a pre-subject filter assembly 86 designed to control an attenuation profile of x-rays 84.

Please amend paragraph [0033] as follows:

Motor assemblies 112, 114 axially and independently position filters 96, ~~100~~98, respectively, along the x-direction in the x-ray path so that the collective attenuation of the filters defines a target attenuation profile. In one embodiment, each motor positions a respective filter by extending and retracting respective piston assemblies 113 and 115. One skilled in the art will appreciate that other assemblies may be used to extend and retract the filters into and from the x-ray path. Based on the positioning of the filters, the attenuation caused by filter 96 is added to the attenuation caused by filter 98. Since each filter has a contour that defines a multiple thickness, the combined contours collectively define a multitude of possible beam profiles. A particular beam profile may therefore be selected from the multitude of possible beam profiles so that the resulting beam profile is tailored to the particular patient or subject. That is, filters 96, 98 may be positioned relative to one another by their respective motor assemblies 112, 114 to define a beam profile that substantially matches an approximate shape of the patient. Also, filters 96 and 98 are shown as at least partially overlapping one another. It is contemplated, however, that the filters be positioned such that no overlapping occurs.

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Please amend paragraph [0037] as follows:

Referring now to Fig. 8, package/baggage inspection system 118 includes a rotatable gantry 120 having an opening 122 therein through which packages or pieces of baggage may pass. The rotatable gantry 120 houses a high frequency electromagnetic energy source 124 as well as a detector assembly 126. A conveyor system 128 is also provided and includes a conveyor belt 130 supported by structure 132 to automatically and continuously pass packages or baggage pieces 134 through opening ~~102-122~~ to be scanned. Objects 134 are fed through opening 122 by conveyor belt 130, imaging data is then acquired, and the conveyor belt 130 removes the packages 134 from opening 122 in a controlled and continuous manner. As a result, postal inspectors, baggage handlers, and other security personnel may non-invasively inspect the contents of packages 134 for explosives, knives, guns, contraband, etc.